

# Jan Van Humbeeck

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

45 papers	6,205 citations	23 h-index	45 g-index
45 ext. papers	7,400 ext. citations	4.7 avg, IF	6.08 L-index

#	Paper	IF	Citations
45	DSC Cycling Effects on Phase Transformation Temperatures of Micron and Submicron Grain Ni50.8Ti49.2 Microwires. <i>Shape Memory and Superelasticity</i> , <b>2020</b> , 6, 232-241	2.8	5
44	Modification of Electrical and Mechanical Properties of Selective Laser-Melted CuCr0.3 Alloy Using Carbon Nanoparticles. <i>Advanced Engineering Materials</i> , <b>2020</b> , 22, 1900946	3.5	8
43	Mechanical and electrical properties of selective laser-melted parts produced from surface-oxidized copper powder. <i>Material Design and Processing Communications</i> , <b>2020</b> , 2, e94	0.9	12
42	Influence of Carbon Nanoparticle Addition (and Impurities) on Selective Laser Melting of Pure Copper. <i>Materials</i> , <b>2019</b> , 12,	3.5	28
41	Microstructure and mechanical properties of Hastelloy X produced by HP-SLM (high power selective laser melting). <i>Materials and Design</i> , <b>2019</b> , 165, 107598	8.1	74
40	In-Situ TEM Stress Induced Martensitic Transformation in Ni50.8Ti49.2 Microwires. <i>Shape Memory and Superelasticity</i> , <b>2019</b> , 5, 154-162	2.8	12
39	Microscopic investigation of as built and hot isostatic pressed Hastelloy X processed by Selective Laser Melting. <i>Materials Characterization</i> , <b>2019</b> , 153, 366-371	3.9	32
38	Selective Laser Melting to Manufacture In Situ Metal Matrix Composites: A Review. <i>Advanced Engineering Materials</i> , <b>2019</b> , 21, 1801244	3.5	80
37	Microstructure of Pharmaceutical Semicrystalline Dispersions: The Significance of Polymer Conformation. <i>Molecular Pharmaceutics</i> , <b>2018</b> , 15, 629-641	5.6	9
36	Polymorphism of Indomethacin in Semicrystalline Dispersions: Formation, Transformation, and Segregation. <i>Molecular Pharmaceutics</i> , <b>2018</b> , 15, 1037-1051	5.6	23
35	Additive Manufacturing of Shape Memory Alloys. <i>Shape Memory and Superelasticity</i> , <b>2018</b> , 4, 309-312	2.8	33
34	Right ventricle outflow tract pretesting: In vitro testing of rigidity and corrosion properties. <i>Catheterization and Cardiovascular Interventions</i> , <b>2018</b> , 91, 285-291	2.7	3
33	Microstructure evolution of 316L produced by HP-SLM (high power selective laser melting). <i>Additive Manufacturing</i> , <b>2018</b> , 23, 402-410	6.1	76
32	Additively manufactured metals for medical applications <b>2018</b> , 261-309		12
31	Selective laser melting produced layer-structured NiTi shape memory alloys with high damping properties and Elinvar effect. <i>Scripta Materialia</i> , <b>2018</b> , 146, 246-250	5.6	68
30	A Short Review on the Microstructure, Transformation Behavior and Functional Properties of NiTi Shape Memory Alloys Fabricated by Selective Laser Melting. <i>Materials</i> , <b>2018</b> , 11,	3.5	55
29	Pressureless liquid-phase sintered TiCx-NiTi/Ni cermets. <i>Ceramics International</i> , <b>2017</b> , 43, 9512-9521	5.1	7

28	Spectroscopic Investigation of the Formation and Disruption of Hydrogen Bonds in Pharmaceutical Semicrystalline Dispersions. <i>Molecular Pharmaceutics</i> , <b>2017</b> , 14, 1726-1741	5.6	17
27	Influence of Annealing Time and Thermo-Mechanical Cycling on Constrained Recovery Properties of a Cold-Worked NiTi Wire. <i>Journal of Materials Engineering and Performance</i> , <b>2017</b> , 26, 723-728	1.6	1
26	On the Fatigue Crack Growth Performance of Ti6Al4V Manufactured by Laser Metal Deposition <b>2016</b> , 1453-1457		
25	Preheating of Selective Laser Melted Ti6Al4V: Microstructure and Mechanical Properties <b>2016</b> , 1269-1277		5
24	Effect of Compression on the Molecular Arrangement of Itraconazole-Soluplus Solid Dispersions: Induction of Liquid Crystals or Exacerbation of Phase Separation?. <i>Molecular Pharmaceutics</i> , <b>2016</b> , 13, 1879-93	5.6	29
23	Changing the alloy composition of Al7075 for better processability by selective laser melting. <i>Journal of Materials Processing Technology</i> , <b>2016</b> , 238, 437-445	5.3	257
22	Microstructural Analysis and Mechanical Evaluation of Ti-45Nb Produced by Selective Laser Melting towards Biomedical Applications <b>2015</b> , 421-428		1
21	Additively manufactured porous tantalum implants. <i>Acta Biomaterialia</i> , <b>2015</b> , 14, 217-25	10.8	214
20	Additive Manufacturing of Metals via Selective Laser Melting: Process Aspects and Material Developments <b>2015</b> , 69-99		11
19	Microstructural Analysis and Mechanical Evaluation of Ti-45Nb Produced by Selective Laser Melting towards Biomedical Applications <b>2015</b> , 421-428		1
18	Compression Effects on the Phase Behaviour of Miconazole-Poly (1-Vinylpyrrolidone-Co-Vinyl Acetate) Solid Dispersions-Role of Pressure, Dwell Time, and Preparation Method. <i>Journal of Pharmaceutical Sciences</i> , <b>2015</b> , 104, 3366-76	3.9	15
17	Influence of Annealing on the Stress-Assisted Two-Way Memory Effect in Cold-Worked NiTi Wire. <i>Advanced Engineering Materials</i> , <b>2015</b> , 17, 162-166	3.5	3
16	Revival of pure titanium for dynamically loaded porous implants using additive manufacturing. <i>Materials Science and Engineering C</i> , <b>2015</b> , 54, 94-100	8.3	95
15	Crystallization Kinetics of Indomethacin/Polyethylene Glycol Dispersions Containing High Drug Loadings. <i>Molecular Pharmaceutics</i> , <b>2015</b> , 12, 2493-504	5.6	28
14	Fundamental Development on Utilizing the R-phase Transformation in NiTi Shape Memory Alloys. <i>Shape Memory and Superelasticity</i> , <b>2015</b> , 1, 231-239	2.8	34
13	Effects of build orientation and heat treatment on the microstructure and mechanical properties of selective laser melted Ti6Al4V lattice structures. <i>Additive Manufacturing</i> , <b>2015</b> , 5, 77-84	6.1	262
12	Residual stress via the contour method in compact tension specimens produced via selective laser melting. <i>Scripta Materialia</i> , <b>2014</b> , 87, 29-32	5.6	146
11	Selective Laser Melting of Crack-Free High Density M2 High Speed Steel Parts by Baseplate Preheating. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2014</b> , 136,	3.3	134

10	Effect of SLM Parameters on Transformation Temperatures of Shape Memory Nickel Titanium Parts. <i>Advanced Engineering Materials</i> , <b>2014</b> , 16, 1140-1146	3.5	141
9	Evolution of Recovery Stress and Recovery Strain in Annealed NiTi Thin Wire during Constrained Thermal Cycling to High Temperature. <i>Advanced Engineering Materials</i> , <b>2014</b> , 16, 80-84	3.5	4
8	Determination of the single crystal Ge Young's modulus between room temperature and melting temperature using the impulse excitation technique. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2014</b> , 11, 1566-1569		1
7	Precipitation and austenite reversion behavior of a maraging steel produced by selective laser melting. <i>Journal of Materials Research</i> , <b>2014</b> , 29, 2072-2079	2.5	141
6	Strong morphological and crystallographic texture and resulting yield strength anisotropy in selective laser melted tantalum. <i>Acta Materialia</i> , <b>2013</b> , 61, 4657-4668	8.4	359
5	Fine-structured aluminium products with controllable texture by selective laser melting of pre-alloyed AlSi10Mg powder. <i>Acta Materialia</i> , <b>2013</b> , 61, 1809-1819	8.4	1088
4	Heat treatment of Ti6Al4V produced by Selective Laser Melting: Microstructure and mechanical properties. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 541, 177-185	5.7	989
3	Comparison between 2-hydroxypropyl- $\beta$ -cyclodextrin and 2-hydroxypropyl- $\gamma$ -cyclodextrin for inclusion complex formation with danazol. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , <b>2011</b> , 71, 137-147		5
2	Effect of Annealing on Strain-Temperature Response under Constant Tensile Stress in Cold-Worked NiTi Thin Wire. <i>Smart Materials Research</i> , <b>2011</b> , 2011, 1-6		12
1	A study of the microstructural evolution during selective laser melting of Ti6Al4V. <i>Acta Materialia</i> , <b>2010</b> , 58, 3303-3312	8.4	1675